

SCHOOL OF MEDICINE Department of Neurosurgery Juntendo Izunagaoka Hospital Shizuoka 410-22 Japan (0559) 48-3111

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Dear Dr. Sokoloff

I was very glad to see you again in NIH. I enjoyed your clear lectures very much. Since I returned to Japan, I have been looking for laboratory for Radio-isotope use because in my hospital we are prohibited from using RI for animals. But, I will slove this problem soon.

I am always thinking about the equation to get Vm^* and KT^* . You gave me a equation to solve Vm^* and KT^* for methyl glucose as follows.

I have several question about equation.

Q1. To get Vm* and KT*. We need PS* values at different plasma glucose conecentration. To get diffusion limitation of methyl glucose(m MG), we also need information about λ MG and λ IAP according to Eq①. I know λ MG is different at different plasma glucose concentration. How about λ IAP? Is it different at different plasma glucose concentration?



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Do I need data of λ IAP at different plasma glucose concentrations by different animal group?

Q2. Eq3 is final equation to get Vm* and KT*. I know KT for glucose is about 6.8. However, is KT same value at different plasma glucose concentration and different brain structures?

In pathological condition, I think KT should change. So, according to Eq $\mathfrak G$, it is impossible to get Vm* and KT* without information of KT. What do you think about that?

I know you are extremely busy person. But, could you answer my questions?

I am looking forward to seeing in Sendai next year. I will attend reunion party in Sendai.

Sincerely yours

Kentone Moni

Kentaro Mori